

REEL #

185

IL'IN, S. Ye.

KAL'YU, P.I.; LOGINOVA, Ye.A.; IL'IN, S.Ye.; MATSKO, B.M.; STEL'MAN, O.M.; BRODSKIY, M.S., red.; ROMANOVA, Z.A., tekhn.red.

[Morbidity in the rural population; from data on visits to therapeutic and prophylactic institutions in ten rural districts] Zaboлеваemost' sel'skogo naseleniya; po materialam obrashcheniya v lechenno-profilakticheskie uchrezhdeniya desyati sel'skikh raionov. Pod red. P.I.Kil'ina. Moskva, Gos.izd-vo med.lit-ry Medgiz, 1960. 236 p.

(PUBLIC HEALTH, RURAL--STATISTICS)

(PURA 14:2)

KAL'YU, P.I.; LOGINOVA, Ye.A.; MATSKO, B.M.; IL'IN, S.Ye.; STEL'MAN, O.N.

Medical visits of the rural population related to diseases of
the respiratory organs. Klin.med. 38 no.10:54-59 0 '60. (MIRA 13:11)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A. Semashko (dir. - Ye.D. Ashurkov).
(RESPIRATORY ORGANS—DISEASES) (PUBLIC HEALTH, RURAL)

BERLIN, Viktor Il'ich; IL'IN, S.Ye., red.; LYUDKOVSKAYA, N.I.,
tekhn. red.

[Study of general morbidity among the population in a rural
district] Opyt izucheniia obshchei zabolevaemosti naseleniia
sel'skogo raiona. Moskva, Medgiz, 1961. 103 p.

(Plyussa District (Pskov Province))—Public health, Rural)
(MIRA 15:7)

KAL'YU, P.I.; LOGINOVA, Ye.A.; IL'IN, S.Ye.; MATSKO, B.N.; STEL'MACH,
O.N.

Incidence of circulatory diseases among the rural population as
revealed by visits to therapeutic institutions. Zdrav. Ros.
Feder. 5 no. 4:22-28 Ap '61. (MIRA 14:4)

1. Iz Instituta organizatsii zdavookhraneniya i istorii meditsiny
imeni N.A. Semashko.

(CARDIOVASCULAR SYSTEM--DISEASES)

IL'IN, S. Ye. (Moskva)

Analysis of the records of medical examinations of juvenile workers. Gig. truda i prof. zab. 5 no.7:23-27 J1 '61.

(MENA 15:7)

1. Nauchno-metodicheskoye byuro sanitarnoy statistiki Ministerstva zdravookhraneniya RSFSR.

(YOUTH--CARE AND HYGIENE)

(YOUTH--EMPLOYMENT)

KAL'YU, P.I.; LOGINOVA, Ye.A.; IL'IN, S.Ye.; MATSKO, E.M.; SIMUL'YAKH, O.N.
(Moskva)

Structure and level of attendance of the rural population at medical
and therapeutic institutions. Sov. zdrav. 20 no.7:17-22 '61.

(MLA 15:1)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A.Semashko Ministerstva zdravookhraneniya SSSR.
(PUBLIC HEALTH, RURAL)

IL'IN, S.Ye. (Moskva)

Some problems in the complex study of the state of health of adolescents. Sov. zdrav. 21 no.2:44-47 '62. (MIRA 15:3)

1. Iz organizatsionno-metodicheskogo otdela (zav. Z.T. Dyrdina) Instituta glaznykh bolezney imeni Gel'mgol'tsa (dir. - A.V. Roslavtsov) i Nauchno-metodicheskogo byuro sanitarnoy statistiki (dir. L.A. Brushlinskaya).

(ADOLESCENCE)

24.4.8, Y

KRUZE, I., kandidat tekhnicheskikh nauk; IL'IN, V., inzhener.

Use of machinery in taking off and putting on truck wheels.

Avt. transp. 32 no. 7:16-19 J1 '54.

(MLBA 7:9)

(Automobiles--Wheels)

GRACHEV, L. (Nizhniy Tagil); IL'IN, V. (Nizhniy Tagil); MALIKOV, I.
(Nizhniy Tagil); RAKHIKOVSKIY, M. (Nizhniy Tagil); SIBGATULLIN,
N. (Nizhniy Tagil)

Electronic bridge circuit for fire prevention systems. Pozh.delo
7 no.8:26 Ag '61. (MIRA 14:8)
(Fire alarms) (Bridge circuits)

IL'IN, V.

Medical requirements when flying jet transport airplanes. Grazhd. av.
13 no.7:33-34 J1 '56. (MLRA 9:9)
(Aeronautics--Medical aspects)

IL'IN, V., inzh.

Spread the experience acquired in utilizing the exchange car center. Mor. flot 22 no.3:7-8 Mr '62. (MIRA 15:2)

1. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta.

(Cargo handling)
(Railroads---Cars)

KHRISHCHENOVICH, kh.; RADAVICHYUS, E. [Radavičius, E.]; KALININ, I.;
RYCHKOV, A.; MYANDMAA, E. [Mandmaa, E.]; IL'IN, V.

Increase the scope of efficiency work in financial organs. Fin.
SSSR 37 no.1:62-68 Ja '63. (MIRA 16:2)

1. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Belorusskoy SSSR (for Khrishchenovich).
2. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Litovskoy SSR (for Radavichyus).
3. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Leningradskogo oblastnogo finansovogo otdela (for Kalinin).
4. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Tomskogo oblastnogo finansovogo otdela (for Rychkov).
5. Predsedatel' komissii po ratsionalizatorskim predlozheniyam Ministerstva finansov Estonskoy SSR (for Myandmaa).
6. Predsedatel' komissii po ratsionalizatorskim predlozheniyam pri Ministerstve finansov Chuvashskoy ASSR (for Il'in).

(Finance)

(Suggestion systems)

IL'IN, V.

Raise requirements and increase responsibility! *Fig.* SSSR 37 no.5:
30-32 My '63. *a* (MIRA 16:5)

1. Zamestitel' ministra finansov Chuvshskoy ASSR.
(Chuvashia--Finance) *V* (Chuvashia--Auditing and inspection)

IL'IN, V. (Frunze); ZAYTSEV, V. (Guynak, Dagestanskoy A.S.R.); YEFREMEYEV, M. (Serpukhov, Moskovskoy obl.); CHUGAYEVSKIY, N., inzh. (Moskovskaya oblast'); BRUKVA, N. (Kiyev); SYCHAYEV, S. (Mytishchi); YEVTEYEV, V. (Rostov-na-Donu)

Exchange of experience. Radio no.4:20,33,36,39,40,53 Ap '65.
(MIRA 18:5)

ZAVADSKIY, B. I., ENG.; IL'IN, V. A., ENG.

Steam Boilers

Block mount for PK-10 boiler, Elek, sta., 23, no. 6, 1952

Monthly List of Russian Accessions, Library of Congress October 1952 Unclassified.

ZAVADSKIY, B. I.; IL'IN, V. A.. ENG.

Steam Boilers - Testing

Hydraulic testing of boilers with the help of compressed air. Elek.sta. 23 no. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, November 1952. Unclassified.

ZAVADSKIY, B.I., inzhener; IL'IN, V.A., inzhener.

Installing a boiler on previously prepared post foundation. Elek. sta. 24
no.9:51-52 S '53. (MIRA 6:3)

(Boilers)

1. 1. 1. 1.

"A Study of Certain ... the ... of the ...
Hinter ...". Confidential ...
No 1. 54

30: 54 232, 20 55

USSR / Pharmacology, Toxicology, Narcotics.

V

Abs Jour : Ref Zhur - Biol., No 20, 1958, No 94124

Author : Il'in, V.A.

Inst : Not given

Title : Dynamics of Morphological Changes of the Nervous System in Alcoholic Intoxication.

Orig Pub : Zdravookhraneniye (Kishinev). 1958, No. 2, 28-37.

Abstract : Every day 2,5 - 3 ml/kg of pure ethyl alcohol diluted with 2/3 water was administered into each rabbit (100 animals) during the course of 1-4 years. It was shown that alcoholic intoxication affected all the elements of the nervous system - soft cerebrum membranes, nerve cells, their extension vessels and glia. The first period (20 days) is characterized with acute processes in the form of swelling, and hydropy in all parts

Card 1/2

IL'IN, V.A.

[Nervous system in alcoholism] Nervnaia sistema pri alkogolizme.
Kishinev, Kartia moldoveniaska, 1959. 101 p. (MIRA 13:2)
(ALCOHOLISM) (NERVOUS SYSTEM)

IL'IN, V.A.; KOZLYAKOV, V.V.; REPIN, S.I.

Tensiometric equipment for the control of floating dock strength.
Trudy LKI no.35:5-12 '62. (MIRA 16:7)

1. Kafedra stroitel'noy mekhaniki korablya Leningradskogo
korabletroitel'nogo instituta.
(Floating docks) (Tensiometers)

1. The transfer trajectory of a projectile from a gun to a target is determined by the initial conditions of the projectile and the target. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position.

2. The transfer trajectory of a projectile from a gun to a target is determined by the initial conditions of the projectile and the target. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position.

3. The transfer trajectory of a projectile from a gun to a target is determined by the initial conditions of the projectile and the target. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position.

4. The transfer trajectory of a projectile from a gun to a target is determined by the initial conditions of the projectile and the target. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position.

ABSTRACT: A method for calculating the transfer trajectories of projectiles from a gun to a target is presented. The method is based on the principle of least action. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position. The transfer trajectory is a function of the initial velocity, the initial angle, and the target position.

... the terminal point are given. Orig. art. has: 66 formulas.

Submitted: 03/20/64

1. The first part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

2. The second part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

3. The third part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

4. The fourth part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

5. The fifth part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

6. The sixth part of the report is devoted to a review of the literature on the subject of the effect of the neutron dose on the displacement of atoms in the lattice of a crystal.

... irradiation dose 10^{16} cm^{-2} ...
 ... counting rates were measured ...
 ... molybdenum microclimatic ...
 ... irradiation. In general, the x-irradiation produced an exponential
 attenuation in the ratio of the irradiated to the non-irradiated
 ... the reflections from certain crystallo-
 ... anisotropy of the atomic
 ... of the irradiated metal. The change
 produced in the integral intensity of the x-ray reflections on going
 from liquid nitrogen temperature to room temperature was the same
 ... This indicates that the
 ... the x-ray reflections of the ...
 ... due to the presence of atoms
 ... on the lattice sites, the magnitude of
 ... dependent on the crystallography-
 ... by G. V. Kurdyumov, 1960

3744

2016-17

IL'IN, Viktor Andreyevich; FEDCHENKO, V. p. red.

[On the border between two elements] Na grani dvukh stikhii.
Moskva, Molodaia gvardiia, 1964. 139 p. (MIRA 18:3)

IL'IN, V.A., kapitan meditsinskoy sluzhby

Two types of orthopedic apparatus for treating stiffness of the
talocrural joint. Voen.-med. zhur. no.6:85-86 Ja '51. (MIRA 9:9)
(ANKLE--DISEASES) (ORTHOPEDIC APPARATUS)

IL'IN, V.A.

Orthopedic apparatus for the treatment of difficulty of movement of the ankle joint. Khirurgia, Moskva no.4:87-88 Apr 1953. (CIWL 24:4)

1. Of the Clinic for Hospital Surgery (Director -- Prof. G. M. Davydov), Arkhangel'sk Medical Institute. 2. Deals with braces attached to shoes.

IL'IN, V.A., kandidat meditsinskikh nauk.

New osteoplastic method in treating habitual anterior
dislocations of the mandibular joints. Stomatologiya, no.6:46
M-D '55 (MIRA 9:5)

(JAW--SURGERY)

IL'INA, Ye. I. Cadd Med Sci -- (diss) "Blood Supply of Tendon
Flexors of the Finger Bones in Man," Omsk, 1960, 16 pp, 22 copies
(Omsk State Medical Institute im M. i. Kalinin) (KL, 49/60, 128)

IL'IN, V.A., kand.med.nauk

Use of new accelerated methods for applying plastic dental splints.
Stomatologiya 39 no.6:56-58 N-D '60. (MIRA 15:1)

1. Iz Stalinskogo nauchno-issledovatel'skogo instituta travmatologii, ortopedii i protezirovaniya (dir. - kand.med.nauk T.A.Revenko).
(PLASTICS IN MEDICINE) (DENTAL PROSTHESIS)

L 05095-67 EWI(a)/EWP(1) IJP(c) BB/GG
ACC NR: AP6013301

SOURCE CODE: UR/0413/66/000/008/0097/0097

AUTHORS: Bobrov, I. I.; Ivanov, K. G.; Il'in, V. A.

ORG: none

TITLE: A method of depositing a printed winding on ferrite wafers of a memory cube.
Class 42, No. 180852

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 97

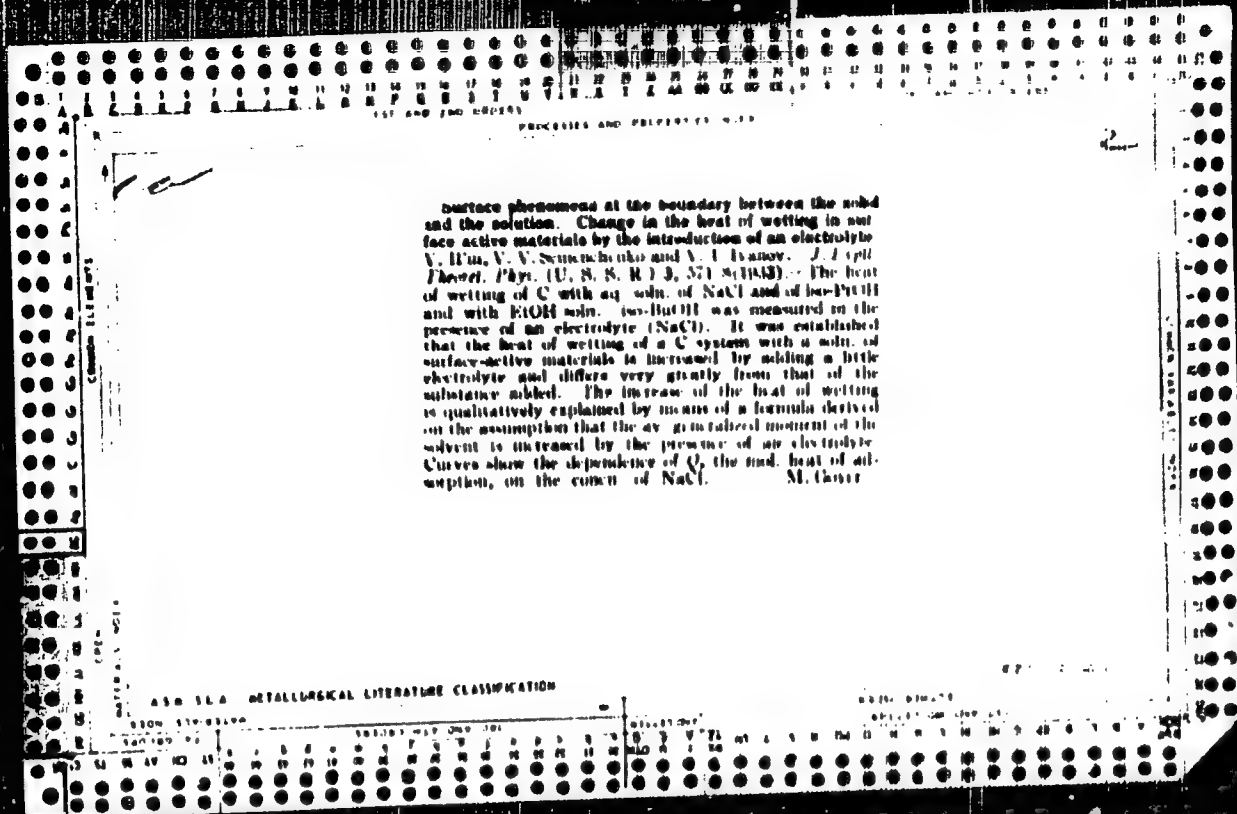
TOPIC TAGS: storage device, printed circuit, computer memory, ferrite core memory

ABSTRACT: This Author Certificate presents a method for depositing a printed winding on ferrite wafers of a storage cube. The method increases the productivity of labor and simplifies the technological process. A negative picture of the winding is applied to the copper-coated ferrite wafer by printing with a polygraphic pigment and a deep steel stamped form. A galvanic silver plating of the printed winding is produced in an acid electrolyte. The pigment is removed, and the copper is etched away from the blank sections by an etching agent. The silver film of the winding is not destroyed.

SUB CODE: 09/ SUBM DATE: 19Nov64

Card 1/1 26

UDC: 681.142.07.002.2



4

Rapid determination of sulfuric acid in chromium plating baths. V. A. Wm. Zandikaya Lab. 16, LOMO (U.S.S.R.). — The cat. corresponding to the potential break at (1940). — The cat. corresponding to the potential break at which Cr deposition begins depends on the concn. of H_2SO_4 in the bath, or more specifically on the ratio of CrO_3 to H_2SO_4 , other conditions being const. Determin. at 17-18° were made to plot a "calibration curve" which can be used for estm. of H_2SO_4 concn. in the bath. Typical values are: CrO_3 , 11.5g; H_2SO_4 , 30%; cat. c.d. 0.0 amp. sq. dm. 20; 0.8, 133; 1.4; 110, 1.8; 100, 2.0; 80, 2.6; 62, 3.8; 57, 3.7. Fresh baths give large deviations, but after brief operation the above results hold true. Accumulation of Cr does not affect validity of the method within limits of Cr plating practice. The temp. coeff. is large, however, and c.d. 2.0 at 18° rises to 4.0 at 30°. Electrode spacing varies with voltage, but not with c.d. Cathode material (stainless steel, brass, Cu, Ni, Fe, and Pt) gives c.d. 1.0 and 1.7 resp. sq. cm. under comparable conditions. The results are usually within 10% of abs. values. The detn. proper is done with a brass cathode and Pt anode and the c.d. initially 1.0; the applied voltage is increased until the jump is observed and the c.d. corresponding to it is then used with the calibration curve, with the known Cr concn. in the bath. G. M. Kozlovskii

LA

4

Chromium plating of steel articles without an under-coat. R. I. Kozlovskaya and V. A. Il'in. *Izv. Akad. Nauk S.S.S.R.* 1949, No. 3, 33-4. - The article is polished with fine emery, or buffed, degreased cathodically in a soln. of NaOH 10; Na_2CO_3 25; Na_3PO_4 25; Na_2SO_4 3 g./l.; - 1-2 min. at 60-70°, 8 amp./sq. dm. (longer degreasing should be avoided), rinsed; etched 5-10 sec. in 5% HCl; rinsed; and plated in a soln. of CrO_3 35-70, H_2SO_4 3-3.5, trivalent Cr 2-3 g./l., at 32-37°, 24-6 amp./sq. dm., 30 min. The Cr coating is 6 μ thick and proves to be less porous than a 15 μ Ni deposit on the same basis surface. The Cr deposit is milky and can be polished. N. Th.

CA

Etching of stainless-steel dental crowns. R. I. Kov-
orskaya and V. A. Ill'ina. *Med. Prom. S.S.S.R.* 1949.
No. 3, 34-8.—After annealing at 1000-1050°, the scale
is removed by 20-30 min. etching in H_2SO_4 25, HCl 25,
 H_2O 50 vol. %, at 60-70°, then the resulting dark deposit
is removed by 20-60 min. immersion in a HNO_3 soln.
at 60-60° which leaves a glossy surface. N. Thon

5

A Rapid Method of Determining Sulphuric Acid in Chromium Plating Electrolytes. V. A. Il'in. (Electroplating, 1949, vol. 3, Dec., pp. 130-131). This is a translation into English of an article which appeared in *Zavodskaya Laboratoriya*, 1949, vol. 14, Nov., pp. 1389-1390. The determination of sulphuric acid in chromium plating electrolytes at the Krasnoyarskaya Works is based on the electrochemical reduction of the Cr^{6+} ions during the electrolysis of the chromium plating electrolyte. A description of the method which takes only 10-15 min., is given. The maximum error is 13%, and as this is compensated by the rapidity of determination, the method can be applied in practice.--J. C. R.

IL'IN, V. A.

Photographic Chemistry

Photochemical method of reproduction on metal. Med.prom., No. 2, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952 Unclassified.

IL'IN, V.A.; KRITSKAYA, V.K.; KURDYUMOV, G.V.

Anisotropy of distortion of the crystal lattice of martensite. Doklady
Akad. Nauk S.S.S.R. 85, 997-9 '52. (MLJL 5:9)
(CA 47 no.22:11868 '53)

IL'IN, V.A.

Galvanic coating of aluminum and aluminum alloys. Med.prom. no.2;
12-15 Ap-Je '55. (MLRA 9:12)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeysk."
(APPARATUS AND INSTRUMENTS,
aluminum & aluminum alloy med. instruments, galvanic
coating)
(ALUMINUM,
aluminum & aluminum alloy med. instruments, galvanic
coating)

IL'IN, V.A.

Improving the screw fit of thread parts. Med.prom. 10 no.4:35-37
O-D '56. (MLRA 10:2)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogvardeysk".
(SCREW CUTTING)

IL'IN, V.A.

GOBERMAN, P.N.; IL'IN, V.A.

Method for studying the nature of plating distribution on
thread profiles. Zav.lab, 22 no.10:1207 '56. (MLRA 10:5)

Leningradskiy institut tochnoy mekhaniki i optiki i zavod
"Krasnogvardeys".

(Metallography)

IL'IN, V.A.; KURTTS, L.Y.

Using the electric jet method for determining the thickness of electrodeposited coatings. Med.prom, 11 no.9:50-52 S '57.

(MKRA 10:12)

1. Mediko-instrumental'nyy ordena Lenina zavod "Krasnogverdeyets" (ELECTROPLATING)

Il'in, V. A.

137-58-1-2014

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 1, p 276 (USSR)

AUTHORS: Il'in, V. A., Kurtts, L. Yu.

TITLE: Electrical Jet Null Method of Determining the Thickness of Coatings (Elektrostruynyy nul'-metod opredeleniya tolshchiny gal'vanopokrytiy)

PERIODICAL: Materialy po obmenu opytom i nauchn. dostizh. v med. prom-sti 1957, Nr 3 (22), pp 90-92

ABSTRACT: It is shown that the existing, widely employed intermittent-jet, volumetric-jet, and drop methods of determining the thickness h of plated coatings do not provide results of sufficient accuracy, particularly in measuring small thicknesses. A new instrument for electrical jet determination of h has been elaborated and developed. By means of this method, the end of dissolution is determined by the change in the emf of the "platinum-specimen" voltaic cell developed as the coating dissolves, at the point where the jet of solution impinges upon the specimen. At the instant that the undercoating or base metal of the part is exposed, the emf of the voltaic cell will change. Measurement of the emf is by the null method. An external emf is connected potentio-

Card 1/2

137-58-1-2034

Electrical Jet Null Method of Determining the Thickness of Coatings

metrically counter-current to the emf of the voltaic cell. The potentiometer is used to attain complete compensation of the emf that had arisen and to hold the galvanometer pointer to zero. A pronounced deviation of the hand of the instrument indicates that dissolution has come to an end. It is shown that the instrument affords a significant acceleration and also an increase in the accuracy of the measurement of h of multiple coatings, with determination thereof independently for each layer.

T. M.

1. Coatings--Thickness--Determination--Methods

Card 2/2

PHASE I BOOK EXPLOITATION

SCV/3963

Il'in, Vitaliy Alekseyevich

Luzheniye i svintsevaniye (Tin Plating and Lead Plating) Moscow, Mashgiz, 1958. 31 p. (Series: Bibliotekha gal'vanotekhnika, vyp. 4) Errata slip inserted. 9,500 copies printed.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer: V. A. Fedorov, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman), S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy, Engineer; Ed. of this book: A. M. Yampol'skiy; Managing Ed. for Literature on the Design and Operation of Machinery: (Leningrad Division, Mashgiz): P. I. Petisov, Engineer; Ed. of Publishing House: N. Z. Simonovskiy; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians, and foreman of electroplating and electroforming shops.

COVERAGE: The book is the fourth volume of the "Little Library of Electrodeposition" series. The author reviews the electrodeposition of tin and lead on metals from various electrolyte compositions, describes preparation methods, properties and special characteristics of electrolytes, and points out sources of malfunction in the electrodeposition process.

Card 1/2

Tin Plating and Lead Plating

SOV/3963

No personalities are mentioned. There are 13 references, all Soviet.

TABLE OF CONTENTS:

| | |
|--|----|
| Foreword | 3 |
| Ch. I. Tin Plating | 5 |
| 1. Properties and purposes of tin coatings | 5 |
| 2. Tin plating from acid electrolytes | 6 |
| 3. Tin plating from alkali electrolytes | 12 |
| 4. Specific cases of tin plating | 18 |
| 5. Inspection of tin-plated articles and removal of defective coatings | 20 |
| Ch. II. Lead Plating | 23 |
| 6. Properties and purpose of lead coatings | 23 |
| 7. Electrolytes for lead plating | 24 |
| 8. Specific cases of lead plating | 29 |
| 9. Materials used in tin and lead plating | 31 |
| Bibliography | 33 |

AVAILABLE: Library of Congress (TS670.B6)

Card 2/2

JA/edw/ec
8-24-60

BOV/3962

BASE I BOOK EXPLOITATION

Il'in, Vitaliy Alekseyevich

Tainkovaniye i kadmirovaniye (Galvanizing and Cadmium Plating)
Moscow, Mashgiz, 1958. 44 p. (Series: Bibliotekha gal'vanotekhnika,
vyy. 3) 8,000 copies printed. Errata slip inserted.

General Ed.: P. M. Vyacheslavov, Candidate of Chemistry, Docent; Reviewer:
V. A. Fedorov, Engineer; Editorial Board: P. M. Vyacheslavov (Chairman),
S. Ya. Grilikhes, Candidate of Technical Sciences, and A. M. Yampol'skiy,
Engineer; Ed. of this book: A. M. Yampol'skiy; Managing Ed. for
Literature on the Design and Operation of Machinery (Leningrad Division,
Mashgiz): F. I. Fetisov, Engineer; Ed. of Publishing House: N. Z.
Simonovskiy; Tech. Ed.: L. V. Sokolova.

PURPOSE: This book is intended for skilled workers, laboratory technicians,
and foreman of electroplating and electroforming shops.

COVERAGE: The book is the third volume of the "Little Library of Electro-
deposition" series. The properties of anticorrosive zinc and cadmium
coatings on steel are described. The composition of common electrolytes
used in electroplating, methods of preparing them, and ways of eliminating

Card 1/3

Purpose of cadmium plating
electrolytes for cadmium plating

25

29

35

36

IL'IN, Vitaliy Aleksyevich; BOGORODITSKAYA, V.A., inzh., rotsenzent;
VIACHESLAVOV, P.M., kand. khim. nauk, dots., red.; GRILIKHES,
S.Ya., kand. tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.;
DUBUSOVA, G.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Tin and lead plating] Lushenie i svintsevanie. Pod red. P.M.
Viacheslavova. Izd.2., dop. i perer. Moskva, Mashgin, 1961.33 p.
(Bibliotekha gal'vanotekhnika, no.3) (MIRA 16:2)
(Tin plating) (Lead plating)

FEDOT'YEV, N.P., prof.; IL'IN, V.A.; CHERNOZATONSKAYA, V.N.;
YAMPOL'SKIY, A.M., kand. tekhn. nauk, red.; SHILLING,
V.A., red.izd-va; GVIRTIS, V.L., tekhn. red.

[Electrodeposition of silver from solutions of cyanide-
free complex salts] Elektroosazhdenie serebra iz rastvorov
netsianistykh kompleknykh solei. Leningrad, 1962. 18 p.
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Omen
peredovym opytom. Seriya: Zashchitnye pokrytiia, no.8)

(MIRA 16:3)

(Silver plating)

IL'IN, Vitaliy Alekseyevich; BRUK, E.S., inzh., retsenaent; VYACHESLAVOV, P.M., kand. khim.nauk,dots., red.; GRILIKHES, S.Ya., kand.tekhn. nauk, red.; YAMPOL'SKIY, A.M., inzh., red.; MITARCHUK, G.A., red. izd-va; BARDINA, A.A., tekhn. red.

[Zinc and cadmium plating]TSinkovanie i kadmirovanie. Pod red. P.M.Viacheslavova. Izd.2., dop. i perer. Moskva, Mashgiz, 1961. 48 p. (Bibliotekhka gal'vanotekhnika, no.2) (MIRA 16:2)
(Zinc plating) (Cadmium plating)

BELINKIN, Arnol'd Abramovich; BASHNIN, Lev Nikolayevich; IL'IN, V.A.,
red.; GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A.,
tekhn. red.

[Mechanization of ornamental grinding and polishing operations]
Mekhanizatsiia dekorativnykh shlifoval'no-poliroval'nykh rabot;
opyt zavoda "Krasnogvardeets." Leningrad, 1962. 30 p.
(MIRA 15:8)

(Grinding and polishing)

YAMPOL'SKIY, Anatoliy Mikhaylovich; IL'IN, Vitaliy Alekseyovich;
DANILOV, I.A., inzh., retsenzent; CHERKEZ, M.B., kand. tekhn.
nauk, red.; ONISHCHENKO, R.N., red. 1zd-va; SHCHETININA, L.V.,
tekhn. red.

[Brief handbook of electroplating and electroforming] Kratkii
spravochnik gal'vanotekhnika. Moskva, Mashgiz, 1962. 244 p.
(NIRA 15:7)

(Electroplating--Handbooks, manuals, etc.)

ABRAMOVA, Nina Nikolayevna; RATKOVA, Irina Pavlovna; IL'IN, V.A.,
red.; GRIGOR'YEVA, I.S., red. izd-va; GVIRTIS, V.L., tekhn.
red.

[Bright zinc plating in an ammoniate electrolyte] Blestiashees
tsinkovanie v ammiakatnom elektrolite. Leningrad, 1963. 13 p.
(Leningradskii dom nauchno-tekhnicheskoi propagandy. Obmen
peredovym opytom. Seriya: Zashchitnye pokrytiia, no.1)
(MIRA 16:5)

(Zinc plating)

FEDOT'YEV, N.P.; IL'IN, V.A.

Electrodeposition of silver from noncyanide electrolytes.
Zhur. prikl. khim. 36 no.8:1763-1768 Ag '63. (MIRA 16:11)

BERG, A.I., glav. red.; TRAFETNIKOV, V.A., glav. red.; TSYPKIN, Ya.Z., doktor tekhn. nauk, prof., red.; VORONOV A.A., prof., red.; AGEYKIN, D.I., doktor tekhn. nauk red.; GAVRILOV, M.A., red.; VENIKOV, V.A., doktor tekhn. nauk, prof., red.; SOTSKOV, B.S., red.; CHELYUSTKIN, A.B., doktor tekhn. nauk, red.; PROKOF'YEV, V.N., doktor tekhn. nauk, prof., red.; IL'IN, V.A., doktor tekhn. nauk, prof., red.; KITOV, A.I., doktor tekhn. nauk, red.; KRINITSKIY, N.A., kand. fiz. mat. nauk, red.; KOGAN, B.Ya., doktor tekhn. nauk, red.; USHAKOV, V.B., doktor tekhn. nauk, red.; LERNER, A.Ya., doktor tekhn. nauk, prof., red.; FEL'DBAUM, A.A., doktor tekhn. nauk, prof., red.; SHREYDER, Yu.A., kand. fiz.-mat. nauk, red.; KHARKEVICH, A.A., akademik, red. [deceased]; TIMOFEYEV, P.V., red.; MASLOV, A.A., dots., red.; TRUTKO, A.F., inzh., red.; LEVIN, G.A., prof., red.; LOZINSKIY, M.G., doktor tekhn. nauk, red.; NETUSHIL, A.V., doktor tekhn. nauk, prof., red.; POPKOV, V.I., red.; ROZENBERG, L.D., doktor tekhn. nauk, prof., red.; LIFSHITS, A.L., kand. tekhn. nauk, red.; AVEN, O.I., kand. tekhn. nauk, red.; BLANN, O.M. [Blunn, O.M.], red.; BROIDA, V., inzh., prof., red.; BREKKL', L [brockl, L.] inzh., kand. nauk, red.; VAYKHARDT, Kh. [Weichardt, H.], inzh., red.; BOCHAROVA, M.D., kand. tekhn. nauk, st. nauchn. red.

[Automation of production processes and industrial electronics]
 Avtomatizatsiya proizvodstva i promyshlennaya elektronika; entsiklo-
 pedia sovremennoi tekhniki. Moskva, Sovetskaya entsiklopediya.
 Vol.4. 1965. 543 p. (TRA 18:6)

IL'IN, V.A.; SHASTOVA, G.A.

Some studies on the theory of communication in systems of
regulation and control. Izv. AN SSSR. Tekh. kib. no.5:112-
113 S-O '63. (MIRA 16:12)

IL'IN, Viktor Aleksandrovich, doktor tekhn. nauk prof.

[Remote control and its use in the national economy]
Telemechanika i ee primeneniye v narodnom khozyaistve.
Moskva, Nauka, 1965. 148 p. (MIRA 18:10)

IL'IN, V. A.

Cand. Tech. Sci.

"Long Lines with Parameters which Vary According to Length," Elektrichestvo,
No.2, 1950

Inst. Automatics and Telemechanics, AS USSR

IL'IN, V. A.

USSR/Electronics - Transmission Lines 21 Nov 51
Matching

"Selection of a Nonhomogeneous Long Line for Matching Impedances Over a Wide Band of Frequencies,"

V. A. Il'in, Inst of Automatics and Telemech, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXXXI, No 3, pp 395-399

Shows that an impedance-transforming line with very low-frequency distortion over a wide band of frequencies can be obtained by selecting the proper variation of line parameters along its length.
Submitted by Acad A. I. Berg 5 Oct 51.

214733

IL'IN, V.; SOKOLOV, F.

Electric Current Rectifiers

Use of selenium rectifiers. Kinomekhanik no. 8, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. Unclassified.

IL'IN, V.; SOKOLOV, F.

New scheme of selenium rectifier bridges used in the VS-60A rectifiers.
Kinomekhanik no.4:18-22 Ap '53. (MLRA 6:6)

(Electric current rectifiers)

II²/IN, V. A.

"Multi-Channel Distance-Measurement Devices with Interim Division" from the book
Remote Control of Power Systems, published by the AS USSR, 1954.

IL'IN, V.A.

GAVRILOV, M.A., otvetstvennyy redaktor; IL'IN, V.A., redaktor; KRASIVSKIY, S.P., redaktor; KURDYUKOV, K.P., redaktor; MALOV, V.B., redaktor; RAYNES, R.L., redaktor; BRYLEYEV, A.M., redaktor; GRANOVA, Ye.D., tekhnicheskiy redaktor

[Telemechanics in power engineering systems] Telemekhanizatsiya energosistem; materialy soveshchaniya 1952 g. po telemekhanizatsii energosistem. Moskva, Izd-vo Akademii nauk SSSR, 1954. 213 p. (MLRA 8:3)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
(Remote control) (Electric power)

Ilyn, V. A.

USSR/ Electricity - Instrumentation

Card 1/1 : Pub. 124 - 6/35

Authors : Ilyn, V. A., Dr. of Techn. Sc.

Title : New instrument for large electrical-power systems

Periodical : Vest. AN SSSR 7, 41-43, July 1954

Abstract : The development of a new instrument - tele-phasemeter - for measurement of delta-phase displacements, for manual and automatic control of the performance of generators etc., is described. The tele-phasemeter, designed and constructed by the Institute of Automatics and Telemechanics of the Acad. of Sc. USSR, consists of transmitting and receiving units and functions on HF-power lines. Illustrations of the two separate parts of the tele-phasemeter are included.

Institution :

Submitted :

IL'IN, V. A.

USSR/Physics - Electrodynamics

Card 1/1

Author : Il'in, V. A.

Title : Electrodynamic problems for nonideally conducting bodies having angular lines

Periodical : Dokl. AN SSSR, 97, Ed. 2, 213 - 216, July 1954

Abstract : The development of an approximate method of solution of electrodynamic problems that may take place in finding a behavior of non-ideally conductive bodies having angular lines (contour). Four references.

Institution : ...

Presented by : Academician S. L. Sobolev, April 8, 1954

USSR/Electronics - Radio wave-guides

Card 1/1 : Pub. 22 - 11/44

Authors : Il'in, V. A.

Title : Excitation of non-ideal radio wave guides

Periodical : Dok. AN SSSR 98/6, 925-928, October 21, 1954

Abstract : A solution of a problem of non-ideal wave guides is considered. The solution is accomplished in approximate form with a precision up to the terms of the 1st and the 2nd orders with respect to the value W , which is the ratio of the wave numbers k_0/k , i.e., numbers characterizing wave propagation in a medium of the wave guide and in the metal. Seven Russian references (1940-1954).

Institution : Moscow State University im. M. V. Lomonosov

Presented by: Academician B. A. Vvedenskiy, May 31, 1954.

Card 1

Authors :

Title : Diffraction of electro-magnetic waves due to non-ideally conducting (e-m waves) wedge and the problem of shore refraction

Periodical : Dok. AN SSSR 99/1, 47-50, Nov 1, 1954

Abstract : A method of an approximate solution of the problem on electro-magnetic wave diffraction for the case of a non-ideally conducting (e-m waves) wedge is presented. The results of this solution led to the outlining of a solution to the problem of shore refraction of oceanic waves.

Institution : Moscow State University Im. M. V. Lomonosov

Presented by : Academician B. A. Vvedenskiy, May 31, 1954

IL'IN, V. A.
USSR/Automatics and Telemechanics

FD-2654

Card 1/2 Pub. 10-1/15

Author : Il'in, V. A.

Title : The principal scientific problems of telemechanics (remote control)

Periodical : Avtom. i telem. 16, Jul-Aug 1955, 321-327

Abstract : Lead article. The author states that telemechanics is employed in electric power systems, in railroad, air, and water transportation, in the petroleum industry, in mining, in large factories, in ir-rigational systems, etc., wherever the control point is separated from the machines by distances of several or hundreds of kilometers. One of the main characteristics of telemechanics is the presence of extended channels of communications over which special reports (in-formation) are transmitted. In the solution of one of the main problems of telemechanics, i.e. the reliable transmission of in-formation, arise more particular problems: interference stability of the systems and also the precision and reliability of operation of the technical means of telemechanics. The problem of inter-ference stability in the general form was solved theoretically by V. A. Kotel'nikov for fluctuational interference of the "white noise" type. The application and certain development of V. A. Kotel'nikov's theory of potential interference-stability to tasks of remote control was given in a work of G. A. Shastova, part of

Card 2/2

FD-2654

which was published in this journal. An effective way to decrease transmission errors is the use of the method of compensation, of feed-back converters, and the method of periodic sending of calibrating signals. Application of a special case of the method of compensation was described in an article of V. I. Stepanov in this journal. The most important tasks of telemechanics are the creation of converters with stable coefficients of conversion, the development of the theory of converters, and the working out of methods for increasing the accuracy of telemetering devices. The problem of increased reliability is connected with application of magnetic elements with rectangular hysteresis loops, treated by K. G. Mityushin and V. A. Zhozhikashvili in this journal. The theoretical principles governing the reliability of telemechanic systems for given probability of output from individual elements were for the first time given in a report by Sh. G. Bebiashvili at the May 1955 session in honor of A. S. Popov; his procedure of calculating permits one to determine the probability of disruption of operation of a system in time according to the given-in-time probabilities of output from the individual elements. The next important problem of telemechanics is the transmission of the maximum amount of information with the least volume of signal, the so-called problem of the effectiveness of transmission of information, as treated by V. A. Kotel'nikov. Another important problem of effectiveness is the separation (selection) of signals.

IL'IN, V. I.

USSR/Automatics and telemechanics

FD-2560

Card 1/1

Pub. 10-7/15

Author : Il'in, V. A., and Novikov, A. I. (Moscow)

Title : Choice of multichannel pulse telemetering systems

Periodical : Avtom. i telem. 16, Jul-Aug 1955, 372-381

Abstract : The authors consider the most characteristic multichannel telemetering systems. They present quantitative evaluations of them. On the basis of expounded criteria they compare the systems and analyze the trends of their development. They conclude that the development of telemechanization necessitates a wider application of multichannel pulse systems, which in industrial telemechanics permit a more rational transmission of several remote readings from one point to another. In aviation multichannel radiotelemetering systems permit more convenient transmission of information necessary for airplanes and create the possibility of the automatization of take-off, flight, and landing of aircraft. The authors note that some of the most prospective commutators in telemetering systems are commutators based on magnetic elements with rectangular hysteresis loops. Fourteen references, e.g. "Trochotrons and their application," Voprosy raketnoy tekhniki [Problems of rocket techniques], No 1, 1952; "Collection of translation on the techniques of transmission of results of measurements by radio, under the editorship of P. I. Yevdokimov, B. Kh. Krivitskiy and Yu. A. Shumikhin," Military Press, 1955.

Institution :

Submitted : March 16, 1955

Translation 563711

GAVRILOV, M.A., otvetstvennyy redaktor; IL'IN, V.A., redaktor; ZHOZHIKASHVILI, V.A., redaktor; PETROVSKIY, A.M., redaktor; MALOV, V.S., redaktor; OSTIANU, V.M., redaktor; POBEDIMSKIY, V.V., redaktor izdatel'stva; KISHLMVA, A.A., tekhnicheskii redaktor

[Remote control in the national economy] Tlenekhanizatsia v narodnom khoziaistve; materialy soveshchaniia. Moskva, Izd-vo Akademii nauk SSSR, 1956. 481 p. (MLTA 9:8)

1, Soveshchaniye po telenekhanizatsii v narodnom khoziaistve SSSR. Moscow, 1954.

(Remote control) (Telemetering)

Levin, V. A. Dr. Tech. Sci.

"Basic Problems of Scientific Research Works in the Field of Telemetry"
(Osnovnyye problemy nauchno-issledovatel'skikh rabot v oblasti telenizmerniy)
from the book Telemechanization in National Economy, pp. 51-58, Iz. AN SSSR,
Moscow, 1956

(Given at meeting held in Moscow, 29 Nov.-4 Dec. 54 by Inst. of Automatics
and Telemechanics AS USSR)

IL'IN, V.A. KASHTELIAN, V.Ye.; POZIN, N.V.; URUSOV, I.D.

Electronic excitation regulator for synchronous generators
operating on long-distance transmission lines. Izv.AN SSSR, Otd.
tekh.nauk no.12:14-29 D '56. (MLRA 10:1)
(Electronic instruments) (Electric generators)

IL'IN, V. A.

"The International Congress on Cybernetics (Namur, Belgium 1956)" Novoye
vremya [New Times], 1956, No. 33, Pages 26 - 28.

IL'IN, V.A.

Notes on V.S.Malov's paper "On scientific problems of telamechanics".
Avtom.i telem. 17 no.2:192 F '56. (MIRA 9:7)
(Malov, V.S.)(Telemetering) (Remote control)

IL'IN, V.A., doktor tekhnicheskikh nauk.

At the Congress on Cybernetics. Vest.AN SSSR 26 no.11:72-75 N '56.
(Namur, Belgium--Cybernetics--Congresses) (MLRA 9:12)

IL'IN, V. A. (Dr. Tech. Sci.); MALOV, P. S. (Cand. Tech. Sci.)

"Basic questions of the theory of telemeasurement."

paper read at the Session of the Acad. Sci. USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Automatika i telemekhanika, No. 2, 1957, p. 182-192.

9015229

IL'IN, V. A.

AUTHOR
TITLE

PERIODICAL
ABSTRACT

IL'IN V. A.

On the Structure of Transmission Lines for Distributed
(O strukture telemekhanicheskikh liniy dlya rassredotochen-
yektov -Russian)
Avtomatika i Telemekhanika, 1957, Vol 18, Nr 7, PP 653-659 (U.S.S.R.)

The security dependent on the structure as well as the relative
length of transmission lines are investigated. On account of the
analysis the following recommendations are made for the selection
of transmission lines for distributed objects: 1. A beam line has
the best structural quality. For this reason it has to be recom-
ended for objects distributed over a plane if the number of points
is $N \gg 1$. 2. The curves $\gamma_k = \frac{P_0 L_0}{P_k L_k} = \varphi(m)$ have suitable maxima.

P_0 and P_k are the probability of the damaging of a not-operating
line or a beam line. L_0 and L_k are the total length of a not op-
erating line or a beam line. m is the number of the beams. The
coefficient of the quality of the line γ_k decreases only by about
10 % in the case of a 1.5 fold decrease or an increase of m comp-
ared with optimum. Therefore the number of the beams m can be ta-
ken 1.5 - 2 fold greater or smaller than optimum without deteri-
orating the quality of the line in relation to its structure. 3.-
The number of beams $m > m_{optimum}$ has to be chosen if the shortening

Card 1/2

distributed 193-06/11

greater value than the increase of its struc-

Il'in, V.A.

AUTHORS: Belevich, K.V., Demeshin, V.P., Il'in, V.A. 103-10-7/10
Suvorov, G.B. (Moscow)

TITLE: The System of Remote Control for Oil Fields. (Sistema radio-
telemekhaniki dlya neftepromyslov)

PERIODICAL: Avtomatika i Telemekhanika, 1957, Vol. 18, Nr 10, pp. 934-936
(USSR)

ABSTRACT: In cooperation with the design office for the manufacture of
apparatuses (KBNP) the Institute for Automation and Remote
Control of the Academy of Science of the USSR has developed a
remote radio control system with an ultra short wave radio
channel for centralized controlling of the entire oilfield
according to the results of analysis on the principles for the
construction of systems with spread objects. The system secures
for each remotely controlled bore hole 1) an automatic transmission
of the damage-signal to the dispatcher point, 2) Remote measuring
of the bore hole debit without signal of the dispatcher by means
of transmission of the signal over the filling of the automatized
holding capacity. 3) A bilateral telephone-radio-communication
with signal call of the dispatcher. A detailed description of the
apparatus follows. The apparatus was tested and set to work on
the Tuymazeneft' oilfield. The Technical Council of the Ministry

Card 1/2

93-58-3-9/17

AUTHOR: Geshelin, M. G.; Demushin, V. P.; Il'in, V. A.

TITLE: A System for the Telemechanization of Oilfield Operations With the Aid of Radio Channels (Sistema dlya telemekhanizatsii neftepromyslov s radiokanalom)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 3, pp 35-41 (USSR)

ABSTRACT: The article describes a central radio telecontrol system designed according to specifications which were approved by the former Technical Council (Tekhnicheskiy sovet) of the USSR Ministry of the Petroleum Industry. The system includes automatic transmission of emergency signals and oil yield data to a central station, and two-way radiotelephone communication. Emergency signals are transmitted from contact transmitters which were developed and produced by the Design Office of the Petroleum Industry (KB NP) and by the Institute of Automation and Telemechanics of the Academy of Sciences (IAT AN). The wells are grouped in from 1-17 clusters of 1-20 wells each. The system includes a minimum number of relays (Fig. 1), an R-106 radio station with 18 fixed waves, a transmitting unit (Fig. 3), a coding unit and generators (Fig. 4), and a decoding unit with a group amplifier (Fig. 5). Fig. 2 shows the general structure of a system operating on the principle of frequency selection and

Card 1/2

95-58-3-9/17

A System for the Telemechanization of Oilfield Operations (Cont.)

includes 20 radio channels. The coding apparatus and generators represent one unit consisting of a radio tube, two thyristors with a cold MKh-90 cathode, three RCM electromagnetic relays, and two RC generators with discharge tubes. The electric field intensity of the wells is given in Table 1. The system was successfully tested at the 5th oilfield of the State All-Union Association of the Tuzmazy Oil and Gas Industry ('Tuzmazaneft'), and proved highly reliable, simple, and suitable for the telemechanization of oilfield operations in the Eastern regions. Serial production of apparatus for the SKP-1 system will be organized in two plants in 1956. There are 6 figures and 1 table.

AVAILABLE: Library of Congress

Card 2/2

30(7)

AUTHORS:

Il'in, V. A., Doctor of Technical Sciences, 507/50-58-11-33/48
Sciences, Domanitskiy, S. M., Candidate of Technical Sciences

TITLE:

Soviet Scientists on the Exposition (Sovetskiye uchenyye o vystavke)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 11, pp 112-113 (USSR)

ABSTRACT:

The authors were mainly interested in exhibits from the field of automation. In their opinion the Belgian pavilions presented the greatest number of interesting exhibits. They mention the exhibits of some large Belgian firms as well as of Belgian branches of American firms (digital computers which can not only be used for office and banking operations, but also for the automation of production processes; a contactless automatic telephone exchange for 36 parties, and other features). In the field of metalworking machinery with automatic controls the pavilions of the USSR, Czechoslovakia, Great Britain and Belgium are mentioned as worthwhile seeing, whereas the corresponding exhibits in the US pavilion are called somewhat less interesting. The Soviet pavilion contained electronic control apparatus as well as the simulator plant

Card 1/2

Soviet Scientists on the Exposition

SOV/30-59-11-33/48

~~DO~~ -8 and other exhibits which could be operated by the visitors in contrast to other pavilions. Finally the author states that some of the exhibits in the Soviet pavilion were less effectively arranged than those in the Czech pavilion. Furthermore, he expresses his astonishment at the fact that the USSR exhibited several obsolete recording instruments. There is 1 figure.

Card 2/2

IL'IN, V. A.

103-2-6/9

AUTHORS: Il'in, V. A. , Kurdyukov, K. P. (Moscow)

TITLE: Frequency Methods of Remote Control of Dispersed Objects
(O chastotnykh metodakh teleupravleniya rassredotochennymi ob'yektami)

PERIODICAL: Avtomatika i Telemekhanika, 1958, Vol. 19, Nr 2, pp. 174-186
(USSR)

ABSTRACT: In the course of the analysis of different methods of selection a frequency selection method for distributed objects is given. The construction principles of the frequency equipment of a remote control with frequency relay which has an oscillation circuit in series connection was investigated and developed. The problems of the structure selection of remote control lines for distributed objects was investigated in Reference 1. The following is shown:
1) The frequency method for the selection makes it possible to have a minimum number of relays per object. This essentially reduces the number of electromagnetic relays within the system with distributed objects. The remote control apparatus

Card 1/2

103-2-6/9

Frequency Methods of Remote Control of Dispersed Objects

at the object can be very simple with this method, it operates reliably and meets the demands for standardization with different capacities of the system. 2) With the frequency method in the case of the control of the object being carried out according to its selection a wrong selection as well as the control of another object can occur under the influence of a disturbance. This basic deficiency of the frequency method can in principle be eliminated by using the combined frequency-polar- or frequency-combination selection method. 3) With distributed objects it is in many cases useful to select an electric oscillation -LC-circuit, in series connection, as described, as element for the frequency selection. 4) The frequency relay worked out with a current circuit in series connection can be used in the frequency combination selective method which extends the range of applicability of the frequency method. Only one relay is used here per object. 5) An amplitude frequency method for the control of the position of the object is given. This makes it possible to simplify the remote signal system for lines of up to 5 - 10 km. There are 12 figures, 2 tables, and 6 Soviet references

Card 2/2

SUBMITTED: April 19, 1957

1. Frequency-Control systems-Mathematical analysis

AUTHORS: Il'in, V. A., Novikov, A.I.(Moscow) 103-19-8-5/11

TITLE: New Principles for the Construction of Telemetering Systems With Pulse-Frequency and Pulse-Width Modulation
(Novyye printsipy postroyeniya sistem teleizmereniya s vremya-impul'snoy i shirotno-impul'snoy modulyatsiyey)

PERIODICAL: Avtomatika i telemekhanika, 1958, Vol 19, Nr 8, pp 757-761 (USSR)

ABSTRACT: As a result of the work intended for the construction of highly stable transducers (modulators, demodulators etc.) new, simple highly stable pulse-frequency and pulse-width transducers were proposed and developed at the Institute for Automation and Telemetering of the AS USSR (Institut avtomatiki i telemekhaniki AN SSSR), which were denoted as exponential transducers. They are described and the foundations of their theory are detailed. The exponential pulse-width transducer consists of a bridge, to the one branch of which belong the resistances R_1 and R_2 , whereas the other capacitance and a resistance or an inductivity and a resistance. A diode is inserted into the diagonal connection of the bridge. The fundamental formulae are

Card 1/2

New Principles for the Construction of Telemetering Systems With Pulse-Frequency and Pulse-Width Modulation 103-19-6-5/11

written down. A new method for the construction of a multi-channel system with pulse frequency modulation and a time separation of the channels without a commutator is given. Furthermore the diagram of the transmitter (peredatchik) and of the receiver of a one-channel telemetering system BCT-1 is given. This is done primarily to replace the outdated system of the Bristol Company (Bristol'). The characteristic particularity of the receiver is the memory element. The characteristics obtained on the basis of the investigation are given. The errors of measurement correspond to those of equipment of first grade. The system operates normally, when the resistance connected in series to the leads is varied from 0 to 10,000 ohms. There are 8 figures.

SUBMITTED: April 1, 1958

1. Telemeter systems--Design
2. Telemeter systems--Equipment
3. Transducers--Design
4. Electric bridges--Performance

Card 2/2

IL'IN, V.A.

GESHELIN, M.G.; DEMESHIN, V.P.; IL'IN, V.A.

Using a radio channel for remote control of oil wells. Neft. khoz.
36 no.3:35-41 Mr '58.

(MIRA 11:4)

(Remote control) (Oil wells)

FROLOV, Anatoliy Ivanovich; KLOCHKOVA, Yevdokiya Vasil'yevna;
IL'IN, V.A., nauchnyy red.; WIKITINA, R.D., red.; TIAL,
R.K., tekhn.red.

[Photochemical method of preparing printed circuits]
Fotokhimicheskiy sposob izgotovleniya pechatnykh skhem.
Leningrad, Gos.soiuznoe izd-vo sudostroitel.promyshl., 1959.
76 p. (MIRA 12:6)
(Printed circuits)

9 (2)

06349
SOV/142-2-4-2/26

AUTHOR: Il'in, V.A.

TITLE: On Cybernetics

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Radiotekhnika,
1959, Vol 2, Nr 4, pp 399-404 (USSR)

ABSTRACT: This article was published to attract the attention of readers and authors to contemporary radio engineering problems in cybernetics. The article is intended to be a subject of discussion. The author reviews briefly the present development of cybernetics and presents two block diagrams of simple control circuits. He mentions research on cybernetics performed in the USA (Harvard University, RCA) and in Germany. There are 2 block diagrams and 9 Soviet references.

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Card 1/1

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AUTHOR:

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TITLE:

Important Trends in Telemechanics (Vazhnyye napravleniya v telemekhanike)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1959, Nr 5, pp 30 - 34

ABSTRACT:

In the Institut avtomatiki i telemekhaniki Akademii nauk SSSR (Institute of Automation and Telemechanics of the Academy of Sciences, USSR) a cycle of investigations on the elimination of disturbances of the telemechanical systems in the case of weak fluctuation disturbances was concluded; the investigations were carried out on the basis of the theory worked out by V. A. Kotel'nikov. The optimum parameters of the systems were determined from the viewpoint of elimination of disturbances. In the field of reliable telemechanical devices three directions have developed: the development and use of ferromagnetic elements with a rectangular hysteresis cycle; the construction of contact-less frequency selectors (chastotnyy izbiratel') on the basis of LC-circuits and filters with ferromagnetic cores; the construction of exponential converters as well as telemeasuring and control devices with contact-less elements (see figures 1 and 2). A telemeasuring system was constructed on the basis

Card 1/3

Important Trends in Telemechanics

SOV/50-59-5-8/43

of exponential transformers which has better characteristics than those hitherto used. Its accuracy of measurement amounts to 99 % and its range of applicability to 500 km. The 1-Union Conference on Automation and Telemechanics in Petroleum Prospecting, held in April 1958 approved of the frequency systems as the most appropriate ones and recommended to introduce them. In 1958 about 900 boreholes in the petroleum fields were telemechanized and further work is carried out in this connection. Characteristic of modern automatic systems is the still growing use of digital computers. At present already a number of comprehensive telemechanic systems for petroleum fields, gas pipes, railroad transport is already constructed the scientific bases of which are still insufficiently worked out; this leads in some cases to unfavorable solutions. V. I. Siforov, M. A. Bebiashvili carried out interesting work in connection with the reliability of systems with a chain circuit, as is applied, for example, in radio relays. In conclusion, the author of this paper states that the elaboration of scientific bases for the construction and the theory of teleautomatic and complex systems is to be regarded as the

Card 2/3

Important Trends in Telemechanics

SOV/30-59-5-8/43

most important direction in the development of modern telemechanics. He calls for investigations in the institutes of the AS USSR to be conducted on a far larger scale, as it will only under these conditions be possible to solve the tasks of the 7-year Plan in this field. There are 2 figures. ✓

Card 3/3

IL'IN, V.A.; KURDYUKOV, K.P.; STAPANOV, V.I. (Moskva)

The KST-1 combined remote control system for dispersed objects. Avton. i
telen. 20 no.2:249-252 F '59. (MIRA 12:3)
(Remote control)